

LAND REQUIRMENTS FOR TEA

LAND QUALITY	LAND CHARACTERSTICS	LIMITING VALUES FOR LAND CHARACTERSTICS			
		Most Suitable	Moderately Suitable	Marginally Suitable	Not Suitable
TEMPERTURE REGIME	Elevation (m) Up Country	1200-1800	1800-2100	2100-2400	>2400
	Mid Country	450-1800			
	Low Country	<450			
GROWING PERIOD	DAYS	>300	275-300	260-275	<260
WATER AVILABILITY	75% Probability Annual Rainfall or, Mean Annual Rainfall, mm	>2500	2100-2500	1800-2100	<1800
	Minimum Soil Depth cm	>90	70-90	50-70	<50
	Soil Texture	L to C	SL to C	SL to C	Any
	Stones and Gravel %	<10	10-20	20-50	>50
DRAINAGE	Soil Drainage Class	Well Drained	Well Drained	Moderately Well Drained	Excessively Imperfectly, Poorly Drained
	Depth to Ground Water	>100	60-100	40-60	<40
NUTRIENTS AVAILABILITY	Soil pH	5-5.5	4.5-5,5.5-6	4-4.5,6-7	<4, >7
EROSION HAZARD	Slope Angle , %	<25	25-55	55-70	>70
	Past Erosion	Nil	Slight	Moderate	Severe
EASE OF LAND PREPARITON	Rock Outcrops, %	Nil	1-10	10-20	>20

KEY TO TABLES OF LAND USE REQUIRMENTS

Key to Sri Lanka Soil Classes

1. Reddish brown earths with moderate amount of gravel in subsoil and low humic gley soils, undulating terrain.
2. Reddish brown earths with high amount of gravel in subsoil and low humic gley soils, undulating terrain.
3. Reddish brown earths and solodized solonetz undulating terrain.
4. Reddish brown earths, noncalcareous brown soils and low humic gley soils, undulating terrain.
5. Reddish brown earths and immature brown loams, rolling, hilly and steep terrain.
6. Noncalcareous brown soils and low humic gley soils, undulating terrain.
7. Noncalcareous brown soils, soils on old alluvium and solodized, solonetz, undulating terrain.
8. Red- Yellow latosols, flat to slightly undulating terrain
9. Calcic red-yellow latosols, flat terrain.
10. Solodized solonetz and solonchacks, flat terrain.
11. Grumusols, flat terrain.
12. Soils on recent marine calcareous sediments, flat terrain.
13. Alluvial soils of variable drainage and texture, flat terrain.
14. Regosols on recent beach and dune sands, flat terrain.
15. Red-yellow podzolic soils and mountain regosols, mountainous terrain.
16. Red-yellow podzolic soils, steeply dissected, hilly and rolling terrain.
17. Red-yellow podzolic soils with strongly mottled subsoil and low humic gley soils, rolling and undulating terrain.
18. Red-yellow podzolic soils with soft and hard laterite, rolling and undulating terrain.
19. Red-yellow podzolic soils with dark B horizon and red-yellow podzolic soils with prominent A1 horizon, rolling terrain.
20. Red-yellow podzolic soils with semi prominent A1 horizon, hilly to rolling terrain.
21. Reddish brown latosolic soils, steeply dissected, hilly and rolling terrain.
22. Immature brown loams, steeply dissected, hilly and rolling terrain.
23. Bog and half-bog soils, flat terrain.
24. Latosols and regosols on old red and yellow sands, flat terrain.
25. Alluvial soils of variable drainage and texture, flat terrain.
26. Regosols on recent beach sands, flat terrain.
27. Rock knob plain.
28. Eroded land.
29. Erosional remnants (inselbergs)
30. Steep rockland and lithosols.

SOILS TEXTURE

LS	Loamy Sand	CL	Clay Loam
SL	Sandy Loam	ZCL	Silty Clay Loam
L	Loam	SC	Sandy Clay
SCS	Sandy Clay Loam	ZiC	Silty Caly
ZL	Silt Loam	C	Clay
Z	Silt		